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	R.A.	N.P.D.
	h m s	° ′ ″
α Leonis	10 0 29·14	77 18 40·40

The sky on the 9th was very hazy, and the observations of the planet were marked "exceedingly faint and not good."

HAMBURG. (M. C. Rümker.)

1852.	Hamburg M.T.	App. R.A.	Decl.	No. Obs.
	h m s	h m s	° ′ ″	
April 11	8 58 14·6	9 50 11·84	+13 46 47·6	6
14	9 2	50 8·35	48 19·6	2
15	8 47	50 9·77	48 37·5	1
16	8 46 31·2	9 50 11·51	+13 49 1·2	6

Apparent Places of the compared Stars according to the Hamburg observations with the Meridian Circle.

	R.A.	Decl.
	h m s	° ′ ″
April 4	9 49 11·35	+13 51 30·0
16	9 49 11·34	+13 51 29·8

Elements.

Computed from the Naples Observation of March 19 and the South Villa Observations of April 3 and 12, by M. Edward Vogel, F.R.A.S., of the South Villa Observatory.

	° ′ ″	
M	77 38 43·33	April 0·1852, 0h Berlin M.T.
π	33 36 43·23	M. Eq. 1852, Jan. 1.
☊	151 11 36·52	
i	3 30 14·67	
φ	24 39 56·22	
Log *a*	0·4865700	
μ	660″·9250	
dl	= −0″·10	Computed − Observed.
db	= 0″·00	

By M. George Rümker.

From the *Naples* observations of March 19 and 29, and the *South Villa* observations of April 4.

	° ′ ″	
M....................	= 280 25 21·5	1852, April 1·0, Berlin T.
π....................	253 56 20·8	Mean Eqx,
☊	150 14 11·7	1852, Jan. 0·0.
i	2 43 8·1	
φ....................	7 42 56·3	
Log *a*	0·4965374	
Log μ	2·8052005	

These elements represent the middle observation exactly, but they must be considered merely as approximate.

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Ephemeris. By M. E. Vogel.

For Berlin Mean Noon.

1852.	R.A.	Decl.	Log Δ.
	h m s	° ′	
April 20	9 50 28	+13 49·3	0·45354
21	50 35	49·0	
22	50 43	48·6	
23	50 54	48·1	
24	51 5	47·6	·46376
25	51 17	46·9	
26	51 30	46·1	
27	51 44	45·2	
28	52 0	44·3	·47393
29	52 16	43·3	
30	52 33	42·2	
May 1	52 51	41·0	
2	53 10	39·7	·48402
3	53 30	38·3	
4	53 51	36·8	
5	54 13	35·2	
6	54 36	33·5	·49399
7	55 0	31·7	
8	55 25	29·9	
9	55 50	27·9	
10	56 16	25·9	·50381
11	56 43	23·8	
12	57 12	21·6	
13	57 41	19·3	
14	58 11	16·9	·51346
15	58 42	14·5	
16	59 13	12·0	
17	9 59 46	9·4	
18	10 0 19	6·7	·52294
19	0 53	4·0	
20	10 1 28	+13 1·2	0·52761

M. George Rümker has also been kind enough to forward an ephemeris calculated upon his elements, which, however, arrived after M. Vogel's elements were in type. The following quantities must be applied to M. Vogel's ephemeris to produce M. Rümker's.

	R.A.	Decl.
	m s	′
April 20	+0 16	−1·1
30	+0 47	−3·4
May 10	+1 32	−7·3

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FLORA.

Durham. Fraunhofer Equatoreal. (Mr. R. C. Carrington.)

	Green. M.T.	R.A.	Exc. of Ephem.	N.P.D.	Exc. of Ephem.	No. of Comps. in R.A.	No. of Comps. in N.P.D.	Set.
1852.	h m s	h m s	s	° ′ ″	s			
Mar. 2	12 50 19·9	12 49 50·72		85 50 17·2		24	8	1
3	12 6 35·7	49 11·21		85 43 7·2		18	6	2
9	12 28 14·6	44 37·28	− 9·77	84 57 23·5	−57·4	18	6	3
24	14 38 24·7	12 30 38·68	−10·06	83 3 3·9	−53·8	18	6	4

Corrected for refraction and parallax, and compared with the ephemeris circulated by the superintendent of the *Nautical Almanac.*

Assumed *Mean* Places of Stars of Comparison, 1852·0.

Name.	R.A.	N.P.D.	Set.
	h m s	° ′ ″	
B.A.C. 4340	12 48 9·16	85 47 50·2	1, 2
Weisse, xiih, 787	46 8·98	84 57 19·8	3
— — 536	12 32 12·23	83 4 8·5	4

Set 1. Good observation. *Flora* about 9½ magnitude.
— 4. Sky very changeable. Measures obtained with difficulty.

Liverpool. Equatoreal. (Mr. Hartnup.)

	Green. M.T.	R.A.	N.P.D.	Compd—Obsd		Stars of Comp.
1852.	h m s	h m s	° ′ ″	s	″	
April 8	11 13 54·5	12 16 24·25	81 34 27·5	−9·80	−51·4	B.A.C. 4072
	11 39 49·5	23·03	23·3	9·54	52·3	— —
10	10 15 27·2	12 14 41·99	81 25 49·8	−9·23	−52·1	— —
	10 45 21·0	40·94	46·4	9·24	54·0	— —
11	10 4 43·0	12 13 50·94	81 21 41·5	−8·72	−50·5	— —
	10 29 38·6	50·25	35·2	8·91	48·5	— —

The observations are corrected for refraction and parallax. The computed places are interpolated from the ephemeris circulated by the Superintendent of the *Nautical Almanac.*

The assumed *mean* place of the Star of Comparison for 1852·0, derived from the Greenwich Observations, is as follows :—

	R.A.	N.P.D.
	h m s	° ′ ″
B.A.C. 4072	11 57 40·23	80 26 41·55

EUNOMIA.

Hamburg. (M. Rümker.)

	Hamburg M.T.	App. R.A.	App. Decl.
1851.	h m s	h m s	° ′ ″
Oct. 18	6 58 4·2	282 10 41·7	−20 52 24·7
25	6 46 19·8	284 29 49·3	−20 24 45·7

Not corrected for parallax.